



Homeland
Security

Science and Technology

INTERNATIONAL ENGAGEMENT STRATEGY

STATEMENT OF PURPOSE

The U.S. Department of Homeland Security (DHS) Science and Technology Directorate (S&T) International Engagement Strategy is intended to establish clear goals and objectives to guide S&T's international cooperative research, development, test, evaluation and information sharing activities. This strategy builds on efforts identified by the Secretary's U.S Department of Homeland Security International Engagement Strategy, the 2015 White House National Security Strategy, the 2014 Quadrennial Homeland Security Review, and the DHS Fiscal Years 2014-2018 Strategic Plan.



BACKGROUND

On May 13, 2016 the Department of Homeland Security (DHS) outlined the “five lines of effort” with the greatest anticipated impact on homeland security: Combat Terrorism and Transnational Organized Crime; Secure the Global Supply Chain and the International Travel System; Expedite Lawful Flows of U.S.-Bound People and Goods; Promote Lawful Immigration; and Enhance Cybersecurity. In order to accelerate introduction of innovative solutions to address these security mission needs, close collaboration is needed with DHS’s foreign counterparts throughout scientific and technical development.

The International Cooperative Programs Office (ICPO) oversees S&T’s international activities, which contribute to the implementation of the Secretary’s strategy and pursuit of S&T’s Visionary Goals. Since its inception, ICPO has facilitated more than 100 initiatives conducted across the department with international partners, including cost-sharing arrangements worth nearly \$100 million in combined U.S. and foreign funding. Currently, ICPO manages relationships with 12 bilateral partner nations and with the European Commission. ICPO works with staff from across S&T to facilitate engagement, address export control issues, host foreign visitors, draft cooperative and technical agreements and issue legal guidance on international law and intellectual property issues. ICPO will play an important role in realizing this vision and achieving its mission.

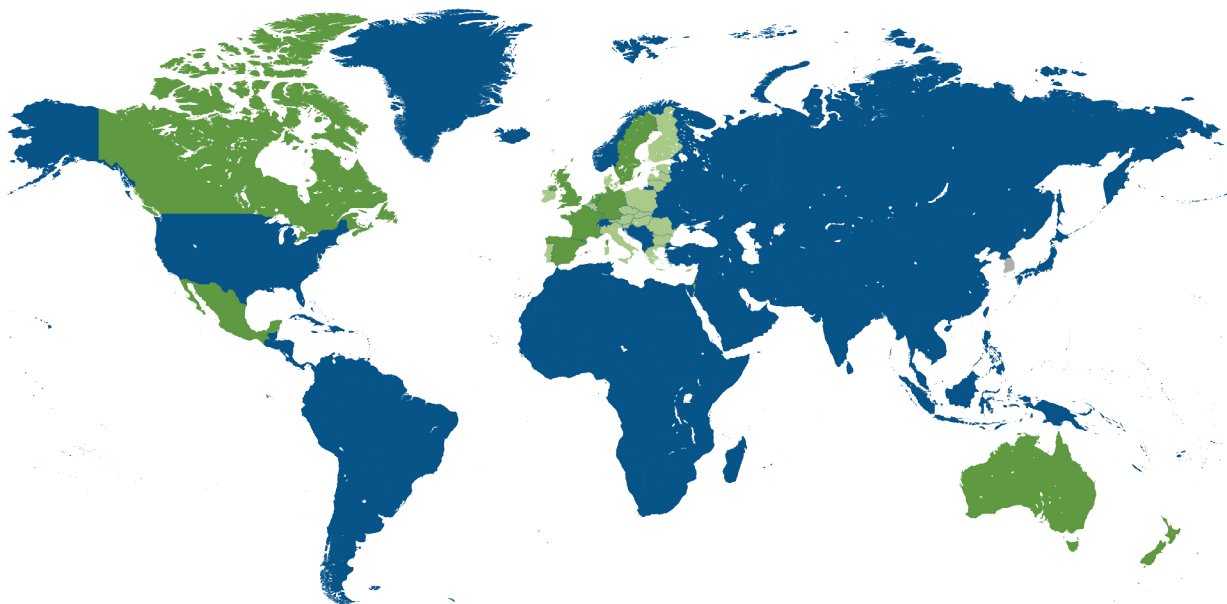
INTERNATIONAL ENGAGEMENT **VISION**

The directorate's vision is for global S&T engagements to take advantage of emerging ideas and solutions wherever they arise, increase the impact of research and development (R&D) spending, and accelerate capability development and transition into the hands of operational end users throughout DHS, states, localities, tribes and territories.

INTERNATIONAL ENGAGEMENT **MISSION**

The international engagement mission is to establish international science and technology partnerships to provide an enhanced, cost-effective, cooperative approach to common homeland security problem sets.

S&T promotes antiterrorism efforts through international cooperation under the auspices of its formal international agreements with partner states and the European Commission, as well as through targeted engagement with non-bilateral partners. S&T facilitates information sharing throughout DHS, funds joint Research Development Test and Evaluation (RDT&E) projects and collaborates to enhance the capacity of government laboratories. It supports multi-year, coordinated research programs designed to maximize delivery of capabilities and avoid duplicative costs. Where feasible, S&T engages with foreign partners on threat and vulnerability assessments, RDT&E methodologies, and analyses of system interdependencies for more effective communication and collaboration between the U.S. and its partners.



- BILATERAL PARTNERSHIP
- EUROPEAN COMMISSION PARTNERSHIP
- MEMORANDUM OF UNDERSTANDING (MOU)



GOALS

The strategic goals of this mission are to:

1

Enhance homeland security capabilities that reduce risk to U.S. and partner countries, and increase their resilience; and

2

Establish enduring relationships to provide access to innovative, international R&D knowledge, funding, and other unique capabilities and resources.

STATEMENT OF PURPOSE

In order to carry out the strategic goals, S&T will pursue three objectives. Each objective aligns with one or more strategic goal, generally by either developing new relationships or making current ones more effective and supportive of S&T activities.

DHS S&T will realize these goals by accomplishing
three specific objectives:



OBJECTIVE 1:

Identify international engagement opportunities for homeland security research.



OBJECTIVE 2:

Develop and implement high-quality engagement activities.



OBJECTIVE 3:

Monitor scientific research relevant to existing and emerging homeland security challenges.



OBJECTIVE 1:

Identify International Engagement Opportunities for Homeland Security Research

A primary component of effective international S&T engagement is to establish enduring relationships to gain visibility on new and emerging opportunities. As priorities, funding, and levels of expertise change, so too do potential opportunities for joint research and related activities. Prioritizing opportunities requires fully using expertise within S&T.

To achieve this objective, S&T will:

- Strengthen current, key bilateral partnership to deepen RDT&E cooperation, guided by IPT priorities and Visionary Goals.
- Cultivate institutional engagement to share technical expertise and assess emergent requirements.
- Conduct exploratory or targeted exchanges in countries outside of S&T's formal, bilateral partnerships consistent with broader DHS strategies.



OBJECTIVE 2:

Develop and Implement High-Quality Engagement Activities

S&T maintains formal bilateral agreements that provide a framework for cooperative activities, leveraging additional tools, such as Cooperative Research and Development Agreements (CRADA), Memoranda of Understanding (MOU) and Letters of Intent (LOI) to support targeted engagements. S&T continually seeks improvements in cooperative activity development and delivery. Cooperative activities will be derived from each nation's analysis of their key threats, vulnerabilities, and capability gaps.

To achieve this objective, S&T will:

- Conduct bilateral meetings and strategic dialogues to jointly identify key areas of mutual interest and coordinate the R&D requirements necessary to address common challenges.
- Mature relationships, where possible, to include cost-shared R&D projects, as well as joint trials and evaluation.
- Involve end-users from across the Homeland Security Enterprise (HSE) to ensure cooperative programs enhance and respond to policy priorities.
- Define metrics and monitor cooperative project performance.
- Explore engagement mechanisms with minimal out-year resource burden.
- Work closely with relevant DHS offices to ensure compliance with applicable regulations.
- Enhance the capabilities of S&T's presence abroad.



OBJECTIVE 3:

Monitor Scientific Research Relevant to Existing and Emerging Homeland Security Challenges

S&T will act as a conduit between DHS and its partners to increase visibility of global, technology advancements and potential impacts to the HSE. This will assist the department in better utilizing resources and assisting in long-term research planning.

To achieve this objective, S&T will:

- Stay abreast of the state of homeland security research and technology abroad.
- Participate in multinational forums on homeland security research and technology, including technical conferences and symposia on existing and emerging technologies
- Leverage S&T technical expertise and work with the larger scientific community in DHS priority areas.

CURRENT PRIORITIES

S&T engaged its bilateral partners to help shape and pursue the Visionary Goals and to close capabilities gaps identified through the Integrated Product Team (IPT) process. The IPT process identifies operational gaps where S&T can have the greatest impact on operating efficiency and increasing capability.



1. Screening at Speed



2. A Trusted Cyber Future



3. Enabling the Decision Maker



4. Responder of the Future



5. Resilient Communities



12 Government-to-Government
AGREEMENTS

supporting

100+ **COOPERATIVE
ACTIVITIES**

impacting

62.5% of S&T's
PROGRAMS

involving

13 U.S. Government
DEPARTMENTS & AGENCIES

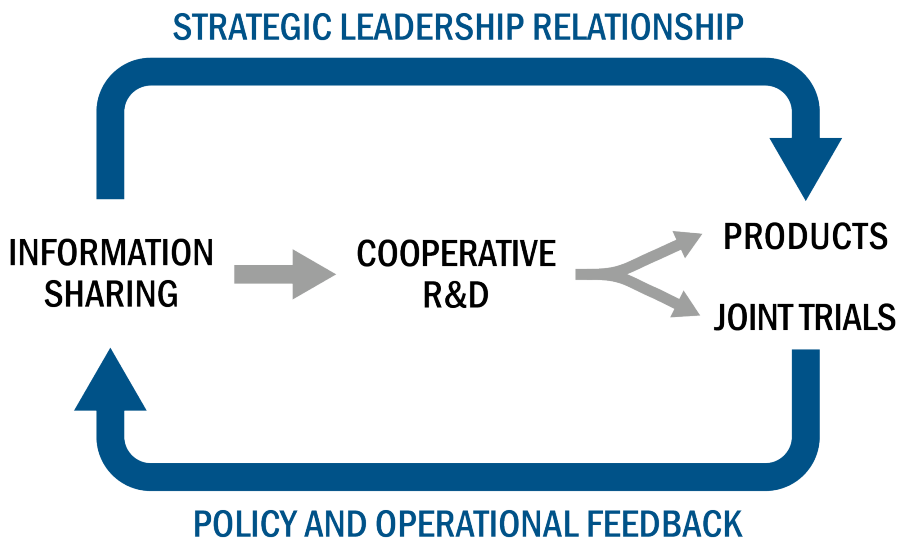
in

\$103M in cost-sharing
ARRANGEMENTS

IMPLEMENTING THE STRATEGY

**DHS S&T will implement this strategy
through the following activities:**

- Focus resources to deepen cooperation with key, bilateral partners.
- Foster institutional engagements with continual, enduring dialogue to gain greater insight into global, technical advancements and potential impact to the HSE.
- Target discrete RDT&E activities with non-bilateral partners to accelerate the development of homeland security technologies here and around the world.
- Consider a variety of mechanisms, with nominal out-year resource commitments, to work multi-laterally and with foreign, non-governmental entities.



CONCLUSION

This strategy explains how S&T will orient its international engagement efforts, and offers a vision to guide future activity. It focuses on identifying and evaluating opportunities for DHS engagements, developing and implementing those engagements, and monitoring the global research that makes those engagements productive.



Learn more about ICPO:

<https://www.dhs.gov/science-and-technology/st-icpo>



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